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(b) next, the user generates his own additional **encryption key pair** with a ... no **communication** with the **trust centre**, during each **bilateral communication** ...
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1 [Cryptography and data security](#)

Dorothy Elizabeth Robling Denning
January 1982 Book

Publisher: Addison-Wesley Longman Publishing Co., Inc.

Full text available: [pdf\(19.47 MB\)](#)

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From the Preface (See Front Matter for full Preface)

Electronic computers have evolved from exiguous experimental enterprises in the 1940s to practical data processing systems in the 1980s. As we have come to rely on these systems to p and store data, we have also come to wonder about their ability to protect valuable data.

Data security is the science and study of methods of protecting data in computer and communic systems from unauthorized disclosure ...

2 [Encryption and Secure Computer Networks](#)

Gerald J. Popek, Charles S. Kline
December 1979 **ACM Computing Surveys (CSUR)**, Volume 11 Issue 4

Publisher: ACM Press

Full text available: [pdf\(2.50 MB\)](#)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

3 [Public-key cryptography and password protocols](#)

Shai Halevi, Hugo Krawczyk
August 1999 **ACM Transactions on Information and System Security (TISSEC)**, Volume 2 Issue :

Publisher: ACM Press

Full text available: [pdf\(275.84 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We study protocols for strong authentication and key exchange in asymmetric scenarios where authentication server possesses ~a pair of private and public keys while the client has only a w human-memorizable password as its authentication key. We present and analyze several simple password authentication protocols in this scenario, and show that the security of these protocol formally proven based on standard cryptographic assumptions. Remarkably, our analysis shows re ...

Keywords: dictionary attacks, hand-held certificates, key exchange, passwords, public passwo

public-key protocols

4 Authentication in distributed systems: theory and practice



Butler Lampson, Martín Abadi, Michael Burrows, Edward Wobber

November 1992 **ACM Transactions on Computer Systems (TOCS)**, Volume 10 Issue 4

Publisher: ACM Press

Full text available: [pdf\(3.37 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We describe a theory of authentication and a system that implements it. Our theory is based on notion of principal and a "speaks for" relation between principals. A simple principal either has a role or is a communication channel; a compound principal can express an adopted role or delegated authority. The theory shows how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We ...

Keywords: certification authority, delegation, group, interprocess communication, key distribution, loading programs, path name, principal, role, secure channel, speaks for, trusted computing base

5 Introduction of the asymmetric cryptography in GSM, GPRS, UMTS, and its public key infrastructure integration

Constantinos F. Grecas, Sotirios I. Maniatis, Iakovos S. Venieris

April 2003 **Mobile Networks and Applications**, Volume 8 Issue 2

Publisher: Kluwer Academic Publishers

Full text available: [pdf\(107.24 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The logic ruling the user and network authentication as well as the data ciphering in the GSM architecture is characterized, regarding the transferring of the parameters employed in these processes, by transactions between three nodes of the system, that is the MS, actually the SIM, visited MSC/VLR, and the AuC, which is attached to the HLR in most cases. The GPRS and the UGPRS architecture carry the heritage of the GSM's philosophy regarding the user/network authentication and the data ciphering ...

Keywords: PKIs, PLMNs, asymmetric cryptography

6 Authentication in distributed systems: theory and practice



Butler Lampson, Martín Abadi, Michael Burrows, Edward Wobber

September 1991 **ACM SIGOPS Operating Systems Review , Proceedings of the thirteenth ACM symposium on Operating systems principles SOSP '91**, Volume 25 Issue 5

Publisher: ACM Press

Full text available: [pdf\(2.33 MB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We describe a theory of authentication and a system that implements it. Our theory is based on notion of principal and a "speaks for" relation between principals. A simple principal either has a role or is a communication channel; a compound principal can express an adopted role or delegator authority. The theory explains how to reason about a principal's authority by deducing the other principals that it can speak for; authenticating a channel is one important application. We use the

7 Just fast keying: Key agreement in a hostile internet



William Aiello, Steven M. Bellovin, Matt Blaze, Ran Canetti, John Ioannidis, Angelos D. Keromytis, (Reingold)

May 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issue 2

Publisher: ACM Press

Full text available: [pdf\(324.39 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We describe Just Fast Keying (JFK), a new key-exchange protocol, primarily designed for use in security architecture. It is simple, efficient, and secure; we sketch a proof of the latter property also has a number of novel engineering parameters that permit a variety of tradeoffs, most notably ability to balance the need for perfect forward secrecy against susceptibility to denial-of-service attacks.

Keywords: Cryptography, denial-of-service attacks

8 Secret key distribution protocol using public key cryptography

Amit Parnerkar, Dennis Guster, Jayantha Herath

October 2003 **Journal of Computing Sciences in Colleges**, Volume 19 Issue 1

Publisher: Consortium for Computing Sciences in Colleges

Full text available:  pdf(74.93 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents the description and analysis of a protocol, which uses hybrid crypto algorithm key distribution. A triple DES with a 168-bit key is used to generate the secret key. This secret is transferred with the help of public key cryptography. The authentication process is accomplished using the message digest algorithm MD5. This protocol uses mutual authentication in which, both participants have to authenticate themselves via a third trusted certificate authority (CA). The ...

9 SPV: secure path vector routing for securing BGP



Yih-Chun Hu, Adrian Perrig, Marvin Sirbu

August 2004 **ACM SIGCOMM Computer Communication Review , Proceedings of the 2004 conference on Applications, technologies, architectures, and protocols for communications SIGCOMM '04**, Volume 34 Issue 4

Publisher: ACM Press

Full text available:  pdf(236.82 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

As our economy and critical infrastructure increasingly relies on the Internet, the insecurity of the underlying border gateway routing protocol (BGP) stands out as the Achilles heel. Recent misconfigurations and attacks have demonstrated the brittleness of BGP. Securing BGP has become a priority. In this paper, we focus on a viable deployment path to secure BGP. We analyze security requirements, and consider tradeoffs of mechanisms that achieve the requirements. In particular, we study how to secure ...


Keywords: BGP, Border Gateway Protocol, interdomain routing, routing, security

10 SPINS: security protocols for sensor networks

Adrian Perrig, Robert Szewczyk, J. D. Tygar, Victor Wen, David E. Culler

September 2002 **Wireless Networks**, Volume 8 Issue 5

Publisher: Kluwer Academic Publishers

Full text available:  pdf(213.37 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

Wireless sensor networks will be widely deployed in the near future. While much research has focused on making these networks feasible and useful, security has received little attention. We present a set of security protocols optimized for sensor networks: SPINS. SPINS has two secure building blocks: SNEP and μ TESLA. SNEP includes: data confidentiality, two-party data authentication, and evidence of data freshness. μ TESLA provides authenticated broadcast for severely resource-constrained ...

Keywords: MANET, authentication of wireless communication, cryptography, mobile ad hoc networks, secrecy and confidentiality, secure communication protocols, sensor networks

11

Security: Fast authenticated key establishment protocols for self-organizing sensor networks



Qiang Huang, Johnas Cukier, Hisashi Kobayashi, Bede Liu, Jinyun Zhang
September 2003 **Proceedings of the 2nd ACM international conference on Wireless sensor networks and applications WSNA '03**

Publisher: ACM Press

Full text available: pdf(303.05 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

In this paper, we consider efficient authenticated key establishment protocols between a sensor security manager in a self-organizing sensor network. We propose a hybrid authenticated key establishment scheme, which exploits the difference in capabilities between security managers : sensors, and put the cryptographic burden where the resources are less constrained. The hybri scheme reduces the high cost public-key operations at the sensor side and replaces them with e symmetric- ...

Keywords: elliptic curve cryptography, key establishment, security, sensor network

12 Crypto-based identifiers (CBIDs): Concepts and applications



Gabriel Montenegro, Claude Castelluccia

February 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issu

Publisher: ACM Press

Full text available: pdf(262.76 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)s, [index term](#)

This paper addresses the identifier ownership problem. It does so by using characteristics of St Uniqueness and Cryptographic Verifiability (SUCV) of certain entities which this document calls : Identifiers and Addresses, or, alternatively, Crypto-based Identifiers. Their characteristics allow severely limit certain classes of denial-of-service attacks and hijacking attacks. SUCV addresses particularly applicable to solve the address ownership problem that hinders mechani ...

Keywords: Security, address ownership, authorization, group management, mobile IPv6, oppo encryption

13 Verifiable encryption of digital signatures and applications



Giuseppe Ateniese

February 2004 **ACM Transactions on Information and System Security (TISSEC)**, Volume 7 Issu

Publisher: ACM Press

Full text available: pdf(258.12 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper presents a new simple schemes for verifiable encryption of digital signatures. We ma of a trusted third party (TTP) but in an *optimistic* sense, that is, the TTP takes part in the protoc if one user cheats or simply crashes. Our schemes can be used as primitives to build efficient fa exchange and certified e-mail protocols.

Keywords: Certified e-mail, contract signing, digital signatures, fair exchange, proof of knowle public-key cryptography

14 Access management for distributed systems: Peer-to-peer access control architecture usir trusted computing technology



Ravi Sandhu, Xinwen Zhang

June 2005 **Proceedings of the tenth ACM symposium on Access control models and techn. SACMAT '05**

Publisher: ACM Press

Full text available: pdf(215.48 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citing](#)s, [index term](#)

It has been recognized for some time that software alone does not provide an adequate founda building a high-assurance trusted platform. The emergence of industry-standard trusted compu

technologies promises a revolution in this respect by providing roots of trust upon which secure applications can be developed. These technologies offer a particularly attractive platform for secure peer-to-peer environments. In this paper we propose a trusted computing architecture to enforce

Keywords: access control, policy enforcement, security architecture, trusted computing

15 A modular approach to the design and analysis of authentication and key exchange protocols
(extended abstract)



Mihir Bellare, Ran Canetti, Hugo Krawczyk

May 1998 **Proceedings of the thirtieth annual ACM symposium on Theory of computing S '98**

Publisher: ACM Press

Full text available: pdf(1.61 MB)

Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Analyzing security protocols with secrecy types and logic programs



Martin Abadi, Bruno Blanchet

January 2005 **Journal of the ACM (JACM)**, Volume 52 Issue 1

Publisher: ACM Press

Full text available: pdf(438.64 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index term](#)

We study and further develop two language-based techniques for analyzing security protocols. One is based on a typed process calculus; the other, on untyped logic programs. Both focus on secrecy properties. We contribute to these two techniques, in particular by extending the former with a generic treatment of many cryptographic operations. We also establish an equivalence between the two techniques.

Keywords: Cryptographic protocols, logic programming, process calculi, secrecy properties, typing

17 Special feature: Report on a working session on security in wireless ad hoc networks



Levente Buttyán, Jean-Pierre Hubaux

January 2003 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 7 Issue 1

Publisher: ACM Press

Full text available: pdf(2.50 MB)

Additional Information: [full citation](#), [references](#), [citations](#)

18 Cryptographic tools: ID-based encryption for complex hierarchies with applications to forward security and broadcast encryption



Danfeng Yao, Nelly Fazio, Yevgeniy Dodis, Anna Lysyanskaya

October 2004 **Proceedings of the 11th ACM conference on Computer and communications security CCS '04**

Publisher: ACM Press

Full text available: pdf(220.00 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

A forward-secure encryption scheme protects secret keys from exposure by evolving the keys over time. Forward security has several unique requirements in hierarchical identity-based encryption scheme: (1) users join dynamically; (2) encryption is joining-time-oblivious; (3) users evolve secret keys autonomously.

We present a scalable forward-secure HIBE (fs-HIBE) scheme satisfying the above properties. We show how our fs-HIBE scheme can be used to construct a forward-secure ...

Keywords: ID-Based encryption, broadcast encryption, forward security

19 Security protocols: Certified mailing lists



Himanshu Khurana, Hyung-Seok Hahm

March 2006 **Proceedings of the 2006 ACM Symposium on Information, computer and communications security ASIACCS '06**

Publisher: ACM Press

Full text available: [pdf\(431.56 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Email List Services (or simply, *mailing lists*) are becoming increasingly common for collaborative computing. In order to enable their use for official purposes with increased effectiveness and services typically provided by postal mail (e.g. fair delivery) need to be provided in mailing lists paper we propose a novel Certified Mailing-list Protocol (CMLP) that provides fair delivery, confidentiality, non-repudiation of origin and receipt, and authentication and integrity ...

Keywords: certified delivery, mailing lists

20 The KryptoKnight family of light-weight protocols for authentication and key distribution

Ray Bird, Inder Gopal, Amir Herzberg, Phil Janson, Shay Kutten, Refik Molva, Moti Yung

February 1995 **IEEE/ACM Transactions on Networking (TON)**, Volume 3 Issue 1

Publisher: IEEE Press

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Electronics, Circuits and Systems, 2004. ICECS 2004. Proceedings of the 200.
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[Aerospace Conference Proceedings, 2000 IEEE](#)
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Dhillon, D.; Randhawa, T.S.; Wang, M.; Lamont, L.;
[Wireless Communications and Networking Conference, 2004. WCNC. 2004 IEEE](#)
Volume 2, 21-25 March 2004 Page(s):682 - 688 Vol.2
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25. **Quantitative analysis of security protocols in wireless networks**
Best, P.; Kamesh Namuduri; Pendse, R.;
[Information Assurance Workshop, 2003. IEEE Systems, Man and Cybernetics](#)
18-20 June 2003 Page(s):290 - 291
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View: 1-25 | 26-5

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1	L1	"generat\$3" near "asymmetrical crytokey" near "user"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:51	0
2	L2	"generat\$3" same "asymmetrical crytokey" near "user"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:50	0
3	L3	"generat\$3" same "asymmetrical crytokey" same "user"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:50	0

	L #	Search Text	DBs	Time Stamp	Hits
4	L4	(generat\$3) same "asymmetrical cryptokey" same "user"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:51	0
5	L5	(generat\$3) and "asymmetrical cryptokey" and "user"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:50	0
6	L6	"asymmetrical cryptokey" and "user" and "trust center"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:51	0

	L #	Search Text	DBs	Time Stamp	Hits
7	L7	"asymmetrical cryptokey" and "user" and "trust center"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:51	0
8	L8	"generat\$3" near "asymmetrical cryptokey" near "user"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:51	0
9	L9	(generat\$3) same "asymmetrical cryptokey" same "user"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:51	0

	L #	Search Text	DBs	Time Stamp	Hits
10	L10	"trust center" and "user" and "certified signature" and "key pair"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:52	1
11	L11	"encryption key pair" and "public" and "secret"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:52	203
12	L12	"trust center" and "unequivocally assignment" and "signature key pair"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:53	0

	L #	Search Text	DBs	Time Stamp	Hits
13	L13	(encrypt\$3) same (certificate) same (encryption key pair)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:53	7850
14	L14	L11 and L13	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:53	113
15	L15	L14 and L10	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:54	0

	L #	Search Text	DBs	Time Stamp	Hits
16	L16	L14 and "bilateral communication"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:54	0
17	L17	L14 and "no communication"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:54	3
18	L18	L17 and "genuineness" and "validity"	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:55	0

	L #	Search Text	DBs	Time Stamp	Hits
19	L19	713/156.ccls.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:55	823
20	L20	713/156.ccls. and (generating) and (asymmetrical) and (cryptographic keys)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:55	17
21	L21	713/158.ccls. and (generating) and (asymmetrical) and (cryptographic keys)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:55	1

	L #	Search Text	DBs	Time Stamp	Hits
22	L22	380/277.ccls. and (generating) and (asymmetrical) and (cryptographic keys)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:56	18
23	L23	380/278.ccls. and (generating) and (asymmetrical) and (cryptographic keys)	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:56	17
24	L24	deutsche.asn.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:56	9340

	L #	Search Text	DBs	Time Stamp	Hits
25	L25	mertes.in. and paul.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:56	20
26	L26	mettken.in. and werner.in.	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:56	6
27	L27	L25 and L26	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:57	1

	L #	Search Text	DBs	Time Stamp	Hits
28	L28	L27 and L24	US- PGPUB; USPAT; USOCR; EPO; JPO; DERWEN T; IBM_TD B	2007/04/10 20:57	1